

Application/Control Number: 09/835,884

Title of Invention: Key-Surround Module Inputting Device

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Art Unit: 2673

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Dear Lun-yi:

Please find herein enclosed the following re-drafted sections as promised: Brief Description of the Drawings, Description of the Illustrated Embodiment, and Drawings. Please accept also Claims 20 through 88 submitted herein as my "official" version, whereas I have made some minor corrections in association to the drawings.

Please call me on (917) 539-9858 on any matter.

As always,

Very truly yours,

Arthur

I claim:

20. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

a middle key having inputting means for inputting data including controls to a computer or other equipment, and

a key-surround key which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and

a support means for supporting said middle key and said key-surround key such that one nests within the other.

21. The key-surround module inputting device according to claim 20 wherein said key-surround key is a floating plural direction pivotable key having a plurality of actuating constructs .

22. The key-surround module inputting device according to claim 20 wherein said key-surround key is a floating plural direction pivotable key having a plurality of actuating constructs which enable inputting of a plurality of conventional Qwerty keyboard key-values.

23. The key-surround module inputting device according to claim 20 wherein said key-surround key is a key-arrangement key-surround key having a plurality of actuating constructs which enable inputting of a plurality of conventional Qwerty keyboard key-values.

24. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

a middle key having inputting means for inputting data including controls to a computer or other equipment, and

a key-surround key which surrounds to an extent said middle key and which has inputting

means for inputting data including controls to a computer or other equipment, and

a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means has a base with tracks which allow movement of said middle key and said key-surround key in a plurality of direction, and, has sliding washers which allow rotation of said middle key and said key-surround key in a plurality of direction individually and in unison.

25. The key-surround module inputting device according to claim 24 wherein said key-surround key is a floating plural direction pivotable key having a plurality of actuating constructs.

26. The key-surround module inputting device according to claim 24 wherein said key-surround key is a key-arrangement key-surround key having a plurality of actuating constructs.

27. The key-surround module inputting device according to claim 24 wherein said middle key is a cursor navigating device.

28. The key-surround module inputting device according to claim 27 wherein said key-surround key is a floating plural direction pivotable key having a plurality of actuating constructs.

29. The key-surround module inputting device according to claim 27 wherein said key-surround key is a key-arrangement key-surround key having a plurality of actuating constructs.

30. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

a middle key having inputting means for inputting data including controls to a computer or other equipment, and

a first key-surround key which surrounds to an extent said middle key, and, where said first key-surround key has inputting means for inputting data including controls to a computer or

other equipment, and

a second key-surround key which surrounds to an extent said middle key, and, where said second key-surround has inputting means for inputting data including controls to a computer or other equipment, and

a third key-surround key which surrounds to an extent said middle key, and, where said third key-surround key has inputting means for inputting data including controls to a computer or other equipment, and

a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other.

31. The key-surround module inputting device according to claim 30 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

32. The key-surround module inputting device according to claim 30 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

33. The key-surround module inputting device according to claim 30 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

34. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

a middle key having inputting means for inputting data including controls to a computer or other equipment, and

a first key-surround key which surrounds to an extent said middle key, and, where said first key-surround key has inputting means for inputting data including controls to a computer or

other equipment, and

a second key-surround key which surrounds to an extent said middle key, and, where said second key-surround has inputting means for inputting data including controls to a computer or other equipment, and

a third key-surround key which surrounds to an extent said middle key, and, where said third key-surround key has inputting means for inputting data including controls to a computer or other equipment, and

a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means has a base with tracks which allow movement of said middle key, said first key-surround key, said second key-surround key, said third key-surround key in a plurality of direction, and, has sliding washers which allow rotation of said middle key, said first key-surround key, said second key-surround key, said third key-surround key in a plurality of direction independently and in unison.

35. The key-surround module inputting device according to claim 34 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

36. The key-surround module inputting device according to claim 34 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

37. The key-surround module inputting device according to claim 34 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

38. A key-surround module inputting device for inputting data including controls to a computer

or other equipment comprising of:

a plurality of middle keys having inputting means for inputting data including controls to a computer or other equipment, and

a first key-surround key which surrounds to an extent said plurality of middle keys, and, where said first key-surround key has an inputting means for inputting data including controls to a computer or other equipment, and

a second key-surround key which surrounds to an extent said plurality of middle keys, and, where said second key-surround key has an inputting means for inputting data including controls to a computer or other equipment, and

a third key-surround key which surrounds to an extent said plurality of middle keys, and, where said third key-surround key has an inputting means for inputting data including controls to a computer or other equipment, and

a support means for supporting said plurality of middle keys, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other.

39. The key-surround module inputting device according to claim 38 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

40. The key-surround module inputting device according to claim 38 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

41. The key-surround module inputting device according to claim 38 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

42. A key-surround module inputting device for inputting data including controls to a computer

or other equipment comprising of:

a plurality of middle keys having inputting means for inputting data including controls to a computer or other equipment, and

a first key-surround key which surrounds to an extent said plurality of middle keys, and, where said first key-surround key has an inputting means for inputting data including controls to a computer or other equipment, and

a second key-surround key which surrounds to an extent said plurality of middle keys, and, where said second key-surround key has an inputting means for inputting data including controls to a computer or other equipment, and

a third key-surround key which surrounds to an extent said plurality of middle keys, and, where said third key-surround key has an inputting means for inputting data including controls to a computer or other equipment, and

a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means has a base with tracks which allow movement of said plurality of middle keys, said first key-surround key, said second key-surround key, said third key-surround key in a plurality of direction, and, has sliding washers which allow rotation of said middle key, said first key-surround key, said second key-surround key, said third key-surround key in a plurality of direction independently and in unison.

43. The key-surround module inputting device according to claim 42 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

44. The key-surround module inputting device according to claim 42 wherein said key-surround

keys are key-arrangement key-surround keys having a plurality of actuating constructs.

45. The key-surround module inputting device according to claim 42 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

46. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

- a plurality of rest-position middle keys having inputting means for inputting data including controls to a computer or other equipment, and

- a plurality of key-surround keys which surrounds to an extent said plurality of middle keys, where said plurality of key-surround keys surrounds said plurality of middle keys such that all key-values of said plurality of rest-position middle keys and all key-values of said plurality of key-surround keys inputted by the same inputting finger are in proximity to one another, and, where said plurality of key-surround keys has inputting means for inputting data including controls to a computer or other equipment, and

- a plurality of key modules each having one key-value, and, having inputting means with a plurality of actuating constructs for inputting data including controls to a computer or other equipment, and

- a nesting module having a middle key and a plurality of key-surround keys, where said middle key is a cursor navigating device and where said middle key and said key-surround keys have inputting means for inputting data including controls to a computer or equipment, and, where said nesting module has a support means for supporting said middle key and said plurality of key-surround keys such that one nests within the other, and

a support means for supporting said plurality of middle keys and said plurality of key-surround keys in nesting configuration, and, a support means for supporting said key modules and said nesting module in proximity to said plurality of middle keys and to said plurality of key-surround keys on the surface of the key-surround module inputting device.

47. The key-surround module inputting device according to claim 46 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

48. The key-surround module inputting device according to claim 46 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

49. The key-surround module inputting device according to claim 46 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

50. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

a plurality of middle keys having inputting means for inputting data including controls to a computer or other equipment, and

a plurality of key-surround keys which surrounds to an extent said plurality of middle keys, where said plurality of key-surround keys surrounds said plurality of middle keys such that all key-values of said plurality of rest-position middle keys and all key-values of said plurality of key-surround keys inputted by the same inputting finger are in proximity to one another, and, where said plurality of key-surround keys has inputting means for inputting data including controls to a computer or other equipment, and

a plurality of key modules each having one key-value, and, having inputting means with a

plurality of actuating constructs for inputting data including controls to a computer or other equipment, and

a nesting module having a middle key and a plurality of key-surround keys, where said middle key is a cursor navigating device and where said middle key and said key-surround keys have inputting means for inputting data including controls to a computer or equipment, and, where said nesting module has a support means for supporting said middle key and said plurality of key-surround keys such that one nests within the other, and

a support means for supporting said plurality of middle keys and said plurality of key-surround keys in nesting configuration, and, a support means for supporting said key modules and said nesting module in proximity to said plurality of middle keys and to said plurality of key-surround keys, and, where said support means has a base with tracks which allow movement of said plurality of middle keys, said plurality of key-surround keys, said key modules and said nesting module in a plurality of direction, and, where said support means has sliding washers which allow rotation of said plurality of middle keys and said plurality of key-surround keys in a plurality of direction independently and in unison.

51. The key-surround module inputting device according to claim 50 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

52. The key-surround module inputting device according to claim 50 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

53. The key-surround module inputting device according to claim 50 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

54. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

A plurality of eight nesting modules from left to right on the surface of the key-surround module inputting keyboard device in the following order:

a first nesting module having a middle key with the key-values for “A” and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for “Q”, “Z”, “Tab”, “CapsLock” and “Shift” which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for “1”, “!”, “@”, “2”, “Shift”, “Ctrl”, “Alt”, “~” and “^”, and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for “Esc” and “F1”, which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and

a second nesting module having a middle key with the key-values for “S” and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for “W” and “X”, which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and,

a second key-surround key having the key-values for “#” and “3”, and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-value “F2”, and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

a third nesting module having a middle key with the key-values for “D” and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for “E” and “C”, which surround to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for “\$” and “4”, and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-value for “F3”, and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a

plurality of direction individually and in unison, and

a fourth nesting module having a middle key with the key-values for "F" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "R", "T", "G", "B", "V", which surround to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "%", "5", "^" and "6" which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for "F4" and "F5", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

a fifth nesting module having a middle key with the key-values for "J" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "U", "Y", "H", "N", "M", which surround to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "7" and "&", and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key

having the key-value for "F6" and "F7", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

a sixth nesting module having a middle key with the key-values for "K" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "I", "<" and ">", which surround to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "*" and "8", and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-value for "F8", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

a seventh nesting module having a middle key with the key-values for "L" and inputting

means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "O", ">" and ".", which surround to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "(" and "9", and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-value for "F9", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

an eighth nesting module having a middle key with the key-values for ":", and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "P", "{", "[", "}", "]", "|", "\", "''", "''", "?", "/", which surround to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the for ")", "0", "-", "_", "+", "=", "Shift", "Backspace" and "Ctrl", and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for "F10", "F11" and "F12", and which surrounds to an extent said middle key, said first key-surround key

and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

a ninth nesting module having a middle cursor navigating device and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "Home", "PgUp", "PgDn", and "End", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "Up", "Down", "Left" and "Right", and which surrounds to an extent said middle key and said first key-surround key, a third key-surround key having the key-value for "Enter", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

a plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space" on the conventional Qwerty keyboard, and inputting means for inputting data including controls to a computer or other equipment, and

a base means for supporting from left to right said first, second, third, fourth, fifth, sixth,

seventh and eighth nesting modules on the key-surround module inputting device, and for supporting said ninth nesting module and said plurality of key modules in proximity to said first through eighth nesting modules, where said base means provides movement and rotation of said nesting modules in a plurality of direction individually, in groups and in unison.

55. The key-surround module inputting device according to claim 54 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

56. The key-surround module inputting device according to claim 54 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

57. The key-surround module inputting device according to claim 54 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

58. The key-surround module inputting device according to claim 54 wherein said base means, having a plurality of tracks, supports said nesting modules in curved arrangement in two groups of four nesting modules from left to right with said first, second, third and fourth nesting modules as the first group, and, said fifth, sixth, seventh, and eighth nesting modules as the second group, where said ninth nesting module is supported with one of said two groups and said plurality of key modules is supported in proximity to said two groups.

59. The key-surround module inputting device according to claim 58 wherein said key-surround keys are floating plural direction pivotable keys having a plurality of actuating constructs.

60. The key-surround module inputting device according to claim 58 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

61. The key-surround module inputting device according to claim 58 wherein said key-surround

keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

62. A key-surround module inputting device for inputting data including controls to a computer or other equipment comprising of:

a plurality of two nesting modules from left to right on the surface of the key-surround module inputting keyboard device in the following order:

a first nesting module having from left to right on the nesting module a middle key with the key-values for "A" and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for "S" and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for "D" and inputting means for inputting data including controls to a computer or equipment and a middle key with the key-values for "F" and inputting means for inputting data including controls to a computer or equipment, and a first key-surround key having the key-values for "Q", "Z", "Tab", "CapsLock", "Shift", "Ctrl", "W", "X", "E", "C", "R", "T", "G", "B" and "V", and, where said first key-surround surrounds to an extent said middle keys and which has inputting means for inputting data including controls to a computer or other equipment, and a second key-surround key having the key-values for "1", "!", "@", "2", "Shift", "~", "'", "#", "3", "Alt", "\$", "4", "%", "5", "^" and "6", and, where said second key-surround surrounds to an extent said middle keys and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, a third key-surround key having the key-values for "Esc" and "F1", "F2", "F3", "F4", and "F5", and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround key, and,

inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "Home", "PgUp", "PgDn", and "End", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "Up", "Down", "Left" and "Right", and which surrounds to an extent said middle key and said first key-surround key, a third key-surround key having the key-value for "Enter", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and

a plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space" on the conventional Qwerty keyboard, and inputting means for inputting data including controls to a computer or other equipment, and

a base means for supporting from left to right said first and second nesting modules on the key-surround module inputting device, and supporting said third nesting module and said plurality of key modules in proximity to said first through eighth nesting modules, while providing for movement and rotation of said nesting modules in a plurality of direction individually, in groups and in unison.

63. The key-surround module inputting device according to claim 62 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

64. The key-surround module inputting device according to claim 62 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

65. The key-surround module inputting device according to claim 62 wherein said base means, having a plurality of tracks, supports said nesting modules in curved arrangement in two groups of four nesting modules from left to right with said first, second, third and fourth nesting modules as the first group, and, said fifth, sixth, seventh, and eighth nesting modules as the second group, where said ninth nesting module is supported with one of said two groups and said plurality of key modules is supported in proximity to said two groups.

66. The key-surround module inputting device according to claim 65 wherein said key-surround keys are key-arrangement key-surround keys having a plurality of actuating constructs.

67. The key-surround module inputting device according to claim 65 wherein said key-surround keys are key-arrangement key-surround and floating plural direction pivotable keys having a plurality of actuating constructs.

68. A device for inputting data including controls to a computer or other equipment comprising of:

a display depicting a middle key, a key-surround key which surrounds to an extent said middle key, and, a background which surrounds to an extent said middle key and key-surround key.

69. A device for inputting data including controls to a computer or other equipment according to claim 68 wherein said display has means to detect touch in a plurality of places on the surface of said display.

70. A device for inputting data including controls to a computer or other equipment according to claim 68 also comprising of a touch panel which rests above said display, and, having a means to detect touch and the place of touch in relation to the depiction of said display.

71. A device for inputting data including controls to a computer or other equipment comprising of:

a display depicting a plurality of middle keys, a plurality of key-surround keys which surrounds to an extent said plurality of middle keys, and a background which surrounds to an extent said plurality of middle keys and key-surround keys.

72. A device for inputting data including controls to a computer or other equipment according to claim 71 wherein said display has means to detect touch in a plurality of places on the surface of said display.

73. A device for inputting data including controls to a computer or other equipment according to claim 71 also comprising of a touch panel which rests above said display, and, having a means to detect touch and the place of touch in relation to the depiction of said display.

74. A device for inputting data including controls to a computer or other equipment comprising of:

a display depicting a plurality of rest-position middle keys, depicting a plurality of key-surround keys which surrounds to an extent said plurality of middle keys, and, depicting a background which surrounds to an extent said plurality of rest-position middle keys and plurality of key-surround keys, where said plurality of key-surround keys surrounds said plurality of middle keys such that all key-values of said plurality of rest-position middle keys and all key-values of said plurality of key-surround keys inputted by the same inputting finger are in proximity to one

another.

75. A device for inputting data including controls to a computer or other equipment according to claim 74 wherein said display has means to detect touch in a plurality of places on the surface of said display.

76. A device for inputting data including controls to a computer or other equipment according to claim 74 also comprising of a touch panel which rests above said display, and, having a means to detect touch and the place of touch in relation to the depiction of said display.

77. A device for inputting data including controls to a computer or other equipment comprising of:

a display depicting the following, with first and second, third, fourth, fifth, sixth, seventh and eighth nesting modules in same said numerical order from left to right:

a first nesting module having a middle key with the key-values for "A", and, a first key-surround key having the key-values for "Q", "Z", "Tab", "CapsLock" and "Shift" which surrounds to an extent said middle key, and, a second key-surround key having the key-values for "1", "!", "@", "2", "Shift", "Ctrl", "Alt", "~" and "'", which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-values for "Esc" and "F1", which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a second nesting module having a middle key with the key-values for "S", and, a first key-surround key having the key-values for "W" and "X", which surrounds to an extent said middle

key, and, a second key-surround key having the key-values for “#” and “3”, which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-value for “F2”, which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a third nesting module having a middle key with the key-values for “D”, and, a first key-surround key having the key-values for “E” and “C”, which surround to an extent said middle key, and, a second key-surround key having the key-values for “\$” and “4”, which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-value for “F3”, which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a fourth nesting module having a middle key with the key-values for “F”, and, a first key-surround key having the key-values for “R”, “T”, “G”, “B”, “V”, which surround to an extent said middle key, and, a second key-surround key having the key-values for “%”, “5”, “^” and “6”, which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-values for “F4” and “F5”, which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and where said middle key, said first key-surround

key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a fifth nesting module having a middle key with the key-values for "J", and, a first key-surround key having the key-values for "U", "Y", "H", "N", "M", which surround to an extent said middle key, and, a second key-surround key having the key-values for "7" and "&", which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-value for "F6" and "F7", which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a sixth nesting module having a middle key with the key-values for "K" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "I", "<" and ",", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "*" and "8", which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-value for "F8", which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a seventh nesting module having a middle key with the key-value for "L", and, a first key-surround key having the key-values for "O", ">" and ".", which surround to an extent said middle

key, and, a second key-surround key having the key-values for "(" and "9", which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-value for "F9", which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

an eighth nesting module having a middle key with the key-values for ":", and, a first key-surround key having the key-values for "P", "{", "[", "}", "]", "|", "\", "'", "\"", "?", "/", which surround to an extent said middle key, and, a second key-surround key having the key-values for ")", "0", "-", "_", "+", "=", "Shift", "Backspace" and "Ctrl", which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-values for "F10", "F11" and "F12", which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a ninth nesting module having a middle cursor navigating device, and, a first key-surround key having the key-values for "Home", "PgUp", "PgDn", and "End", which surrounds to an extent said middle key, and, a second key-surround key having the key-values for "Up", "Down", "Left" and "Right", and where said second key-surround key to an extent said middle key and said first key-surround key, a third key-surround key having the key-value for "Enter", where said third key-surround key surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said

second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space" on the conventional Qwerty keyboard, where said plurality of nesting modules are depicted in proximity to said first through ninth nesting modules.

78. A device for inputting data including controls to a computer or other equipment according to claim 77 wherein said display has means to detect touch in a plurality of places on the surface of said display.

79. A device for inputting data including controls to a computer or other equipment according to claim 77 also comprising of a touch panel which rests above said display, and, having a means to detect touch and the place of touch in relation to the depiction of said display.

80. The key-surround module inputting device of claim 78 wherein said nesting modules are depicted in curved arrangement, and, wherein said nesting modules are depicted apart in two groups of four nesting modules beginning from left to right with said first, second, third and fourth nesting modules as the first group and said fifth, sixth, seventh, eighth nesting modules as the second group, and, wherein said ninth nesting module is depicted with one of said two groups, and, wherein said plurality of key modules is depicted in curved arrangement with said two groups.

81. The key-surround module inputting device of claim 79 wherein said nesting modules are depicted in curved arrangement, and, wherein said nesting modules are depicted apart in two groups of four nesting modules beginning from left to right with said first, second, third and

fourth nesting modules as the first group and said fifth, sixth, seventh, eighth nesting modules as the second group, and, wherein said ninth nesting module is depicted with one of said two groups, and, wherein said plurality of key modules is depicted in curved arrangement with said two groups.

82. A device for inputting data including controls to a computer or other equipment comprising of:

a display depicting the following, with first and second nesting modules in same said numerical order from left to right:

a first nesting module having from left to right on the nesting module a middle key with the key-values for "A", a middle key with the key-values for "S", a middle key with the key-values for "D" and a middle key with the key-values for "F", and, a first key-surround key having the key-values for "Q", "Z", "Tab", "CapsLock", "Shift", "Ctrl", "W", "X", "E", "C", "R", "T", "G", "B" and "V", and, where said first key-surround key surrounds to an extent said middle keys, and, a second key-surround key having the key-values for "1", "!", "@", "2", "Shift", "~", ",", "#", "3", "Alt", "\$", "4", "%", "5", "^" and "6", and, where said second key-surround surrounds to an extent said middle keys and said first key-surround key, a third key-surround key having the key-values for "Esc" and "F1", "F2", "F3", "F4", and "F5", and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a second nesting module having from left to right a middle key with the key-values for "J", a middle key with the key-values for "K" and inputting means for inputting data including controls

to a computer or equipment, a middle key with the key-values for "L" and a middle key with the key-values for ":", and a first key-surround key having the key-values, but not limited to the key-values, for "U", "Y", "H", "N", "M", "I", "<", ";", "O", ">", ".", "P", "{", "[", "}", "]", "|", "\", "'", "(", ")", "q", and "r", and, where said first key-surround key surrounds to an extent said middle keys, and a second key-surround key having the key-values for "7", "&", "*", "8", "(", "9", ")", "0", "-", "_", "+", "=", "Shift", "Backspace" and "Ctrl", and, where said second key-surround key surrounds to an extent said middle keys and said first key-surround key, a third key-surround key having the key-values for "F6", "F7", "F8", "F9", "F10", "F11" and "F12", and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a third nesting module having a middle cursor navigating device and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "Home", "PgUp", "PgDn", and "End", where said first key-surround key surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "Up", "Down", "Left" and "Right", where said second key-surround key surrounds to an extent said middle key and said first key-surround key, a third key-surround key having the key-value for "Enter", where said third key-surround key surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround

key, and, where said middle key, said first key-surround key, said second key-surround key, said third key-surround key are depicted such that one nests within the other, and

a plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space" on the conventional Qwerty keyboard, and, where said plurality of nesting modules are depicted in proximity to said first through ninth nesting modules.

83. A device for inputting data including controls to a computer or other equipment according to claim 82 wherein said display has means to detect touch in a plurality of places on the surface of said display.

84. A device for inputting data including controls to a computer or other equipment according to claim 82 also comprising of a touch panel which rests above said display, and, having a means to detect touch and the place of touch in relation to the depiction of said display.

85. The key-surround module inputting device of claim 83 wherein said nesting modules are depicted in curved arrangement, and, wherein said nesting modules are depicted apart in two groups of four nesting modules beginning from left to right with said first, second, third and fourth nesting modules as the first group and said fifth, sixth, seventh, eighth nesting modules as the second group, and, wherein said ninth nesting module is depicted with one of said two groups, and, wherein said plurality of key modules is depicted in curved arrangement with said two groups.

86. The key-surround module inputting device of claim 84 wherein said nesting modules are depicted in curved arrangement, and, wherein said nesting modules are depicted apart in two groups of four nesting modules beginning from left to right with said first, second, third and

fourth nesting modules as the first group and said fifth, sixth, seventh, eighth nesting modules as the second group, and, wherein said ninth nesting module is depicted with one of said two groups, and, wherein said plurality of key modules is depicted in curved arrangement with said two groups.

87. A method for data and controls inputting to a computer or other equipment with a key-module inputting device comprising of:

- placing a finger upon the key-surround module inputting device such that said finger rests on a nested middle key, and

- extending said finger from said middle key in one of a plurality of direction, and

- striking a key-surround key in order to input one of a plurality of key values, where said key-surround key surrounds to an extent any said nested middle key.

88. A method for data and controls inputting to a computer or other equipment with a key-module inputting device comprising of:

- placing hands upon the key-surround module inputting device such that the inputting fingers of each hand rest on a plurality of nested middle keys, and

- extending any finger from any of said plurality of nested middle keys in one of a plurality of direction, and

- striking one of a plurality of key-surround keys in order to input one of a plurality of key-values, where said one of a plurality of key-surround keys surrounds to an extent any one of said middle keys.

BRIEF DESCRIPTION OF THE DRAWING

Figure 1 is a top plan view of a key-surround inputting device according to the present invention.

Figure 2 is a top plan view of a key-surround inputting device with key-values according to the present invention..

Figure 3a and Figure 3b are exploded perspective cross-sectional views of two varieties of key-surround inputting device having one middle key and one key arrangement key-surround key according to the present invention.

Figure 3c is an exploded perspective cross-sectional view of a key-surround inputting device having one middle key and one floating pivotable key-surround key according to the present invention.

Figure 4 is an exploded perspective of a key-surround inputting device in track having one middle key and having two key-surround keys according to the present invention.

Figure 5 is a top plan of an embodiment of the key-surround inputting device according to the present invention.

Figure 6 is a top plan part cross-sectional view of an embodiment of the key-surround module inputting device according to the present invention.

Figure 7 is a top plan part cross-sectional view of an embodiment of the key-surround module inputting device according to the present invention.

Figure 8 is a cross-sectional top plan view of a system of tracks for certain embodiments of the key-surround inputting device according to the present invention.

Figure 9 is a top plan view of a conventional Qwerty keyboard inputting device.

Figure 10 is a top plan part cross-sectional view of a display embodiment of the key-surround module inputting device according to the present invention.

Figure 11 is a top plan part cross-sectional view of a display embodiment of the key-surround module inputting device according to the present invention.

Figure 12 is a top plan view of an embodiment of the key-surround inputting device according to the present invention.

Figure 13 is a top plan view of an embodiment of the key-surround inputting device according to the present invention.